

**OCD-HOBBS**

SUBMIT IN TRIPPLICATE \*  
(Other Instructions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0136

Expires: February 28, 1995

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

5. LEASE DESIGNATION AND SERIAL NO.  
**NMNM-90161**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**NMNM 116413**

8. FARM OR LEASE NAME, WELL NO. **24427**  
**Hawk B-1 #64**

9. API WELL NO.  
**30-025-38199**

10. FIELD AND POOL OR WILDCAT  
**Eunice; Blinbery-Tubb-Drinkard, North (22900)**

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
**Sec. 9, T21S-R37E, NMPM**

12. COUNTY FOR PARISH  
**Lea**

13. STATE  
**NM**

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK

DRILL

DEEPEEN

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

**Apache Corporation (CO1463 Bond) (08/20/00)**

3. ADDRESS AND TELEPHONE NO. Agent: 705 W Mescalero Rd., Roswell, NM 88201 505-624-9799 (Bonnie Jones)

Apache: 6120 S. Yale Ave. #1500 Tulsa, OK 74136 918-491-4801 (Terry Gilbert)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. \*)

At Surface **2605' FSL, 1210' FEL, Unit I (NE 1/4 SE 1/4)**

At proposed prod. Zone **2605' FSL, 1210' FEL, Unit I (NE 1/4 SE 1/4)**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE \*

**±3 miles North of Eunice, NM**

15. DISTANCE FROM PROPOSED \* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

**35'**

(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

**958.25**

17. NO. OF ACRES ASSIGNED TO THIS WELL

**40.00**

18. DISTANCE FROM PROPOSED LOCATION \* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT.

**99'**

19. PROPOSED DEPTH

**6,875'**

20. ROTARY OR CABLE TOOLS

**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

**3,475' (KB)**

22. APPROX. DATE WORK WILL START \*

**ASAP**

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE         | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|----------------------|-----------------------|-----------------|---------------|--------------------|
| <b>See Exhibit A</b> |                       |                 |               |                    |

Anticipated Duration of Program: Drilling - 14 days  
Completion - 28 days

See attached Exhibit A for complete Drilling Program

**EXHIBITS**

Exhibit A: Drilling Program

Exhibit D: Survey Plat

Exhibit G: Rig Layout

Exhibit B: H<sub>2</sub>S Plan

Exhibit E: Location Plat

Exhibit H: BOP Layout

Exhibit C: Surface Use Plan

Exhibit F: Existing Well Plat

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Bonita L. Jones*  
**Bonita L. L. Jones, RPL (Bonnie)**

TITLE **Permit Agent for**

**Apache Corporation**

DATE **8-25-06**

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

**APPROVAL FOR 1 YEAR**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:  
**Don Peterson**

**FIELD MANAGER**

**SEP 15 2006**

APPROVED BY

TITLE

DATE

**\*See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**FERTILIZER CONTROLLED WATER BASIN**

**APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS  
AND SPECIAL STIPULATIONS  
ATTACHED**

EXHIBIT "A"  
Hawk B-1 #64

**DRILLING PROGRAM**

I. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.

II. Estimated Tops of Geological Markers:

| <u>FORMATION</u>     | <u>DEPTH</u> |
|----------------------|--------------|
| Quaternary alluvials | Surface      |
| Rustler              | 1282'        |
| Yates                | 2652'        |
| Queen                | 3439'        |
| Grayburg             | 3751'        |
| San Andres           | 4005'        |
| Glorieta             | 5193'        |
| Blinebry             | 5656'        |
| Tubb                 | 6133'        |
| Drinkard             | 6464'        |
| Abo                  | 6719'        |
| TD                   | 6875'        |

III. Estimated depths at which water, oil, gas, or other mineral-bearing formations are expected to be encountered:

| <u>SUBSTANCE</u> | <u>DEPTH</u>                                   |
|------------------|--|
| Oil              | Blinebry@5656'<br>Tubb@6133'<br>Drinkard@6464' |
| Gas              | None anticipated                               |
| Fresh Water      | None anticipated                               |

All fresh water and prospectively valuable minerals (as described by BLM) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows within zones of correlative rights will be tested to determine commercial potential.

IV. A. Proposed Casing Program:

| <u>HOLE SIZE</u>              | <u>CASING SIZE</u><br>OD / ID | <u>GRADE</u> | <u>WEIGHT PER FOOT</u> | <u>DEPTH</u> | <u>SACKS CEMENT</u> | <u>ESTIMATED TOC - REMARKS</u>   |
|-------------------------------|-------------------------------|--------------|------------------------|--------------|---------------------|--|
| 12 1/4"                       | 8 5/8"<br>8.097"              | J55 STC      | 24#                    | 1300'        | 600                 | TOC - Surface<br>8.9 ppg Water-based<br>Mud;<br>89 ° F Est. Static Temp;<br>83 ° F Est. Circ. Temp.                                |
| <b>Witness Surface Casing</b> |                               |              |                        |              |                     |  |
| 7 7/8"                        | 5 1/2"<br>4.892"              | J55 LTC      | 17#                    | 6,875'       | 1,400               | TOC - Surface<br>Float Collar set @<br>6830' / 10.10 ppg<br>Brine Mud;<br>141 ° F Est. Static<br>Temp;<br>117 ° F Est. Circ. Temp. |

B. Proposed Cement Program:

| <u>CASING</u> | <u>LEAD SLURRY</u>   | <u>TAIL SLURRY</u>  | <u>DISPLACEMENT</u>            |
|---------------|--|---|--------------------------------|
| 8 5/8"        | 400 sacks 35:65 Poz:Class C Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.003 gps FP-6L + 6% bwoc Bentonite gel<br>752 Vol. Cu Ft<br>1.94 Vol. Factor<br>Slurry Weight (ppg) 12.7<br>Slurry Yield (cf/sack) 1.88<br>Amount of Mix Water (gps) 10.7;<br><u>Estimated Pumping Time – 70 BC (HH:MM)-4:00;</u> | 200 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water<br>270 Vol. Cu Ft<br>1.94 Vol. Factor<br>Slurry Weight (ppg) 14.8<br>Slurry Yield (cf/sack) 1.35<br>Amount of Mix Water (gps) 6.35<br>Estimated Pumping Time – 70 BC (HH:MM)-3:00; | 80 bbls Fresh Water @ 8.33 ppg |

8 5/8" Casing: Volume Calculations:

|         |   |                     |                  |   |                       |
|---------|---|---------------------|------------------|---|-----------------------|
| 1260 ft | x | 0.4127 cf/ft        | with 100% excess | = | 1040.0 cf             |
| 40 ft   |   | x 0.8214 cf/ft      | with 0% excess   | = | 32.8 cf               |
| 40 ft   | x | 0.3576 cf/ft        | with 0% excess   | = | 14.3 cf (inside pipe) |
|         |   | TOTAL SLURRY VOLUME |                  | = | 1087.1 cf             |
|         |   |                     |                  | = | 193.6 bbls            |

Spacer 20.0 bbls Water @ 8.33 ppg

| <u>CASING</u> | <u>LEAD SLURRY</u>  | <u>TAIL SLURRY</u>   | <u>DISPLACEMENT</u>              |
|---------------|---|--|----------------------------------|
| 5 1/2"        | 950 sacks (50:50) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.003 gps FP-6L + 10% bwoc Bentonite<br>2318 Vol. Cu Ft<br>2.66 Vol. Factor<br>Slurry Weight (ppg) 11.8<br>Slurry Yield (cf/sack) 2.44<br>Amount of Mix Water (gps) 14.07;<br>Amount of Mix Fluid (gps) 14.07<br><u>Estimated Pumping Time – 70 BC (HH:MM)-4:00;</u> | 450 sacks (50:50) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.003 gps FP-6L<br>581 Vol. Cu Ft<br>1.84 Vol. Factor<br>Slurry Weight (ppg) 14.2<br>Slurry Yield (cf/sack) 1.29<br>Amount of Mix Water (gps) 5.91;<br>Amount of Mix Fluid (gps) 5.91;<br>Estimated Pumping Time – 70 BC (HH:MM)-3:00; | 160 bbls 2% Kcl Water @ 8.43 ppg |

5 1/2" Casing: Volume Calculations:

|         |   |                     |                  |   |                      |
|---------|---|---------------------|------------------|---|----------------------|
| 1300 ft | x | 0.1926 cf/ft        | with 0% excess   | = | 250.4 cf             |
| 3675 ft | x | 0.1733 cf/ft        | with 159% excess | = | 1650 cf              |
| 1900 ft | x | 0.1733 cf/ft        | with 85% excess  | = | 609.0 cf             |
| 40 ft   | x | 0.1305 cf/ft        | with 0% excess   | = | 5.2 cf (inside pipe) |
|         |   | TOTAL SLURRY VOLUME |                  | = | 2514.6 cf            |
|         |   |                     |                  | = | 447.8 bbls           |

All slurries will be tested prior to loading to confirm thickening times and a lab report furnished to Apache. Fluid loss will be tested and reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement.

V. A. Proposed Mud Program

| <u>DEPTH</u>  | <u>MUD PROPERTIES</u>   | <u>REMARKS</u>   |
|---------------|---|--|
| 0 – 1,300'    | Weight: 8.6 – 9.6 ppg<br>Viscosity: 34 – 36 sec/qt<br><br>pH: NC<br>Filtrate: NC                | Spud with a Conventional New Gel/Lime "Spud mud". Use NewGel and native solids to maintain a sufficient viscosity to keep the hole clean. Mix Paper one-two sacks every 100 feet drilled to minimize wall cake build up on water sands and to control seepage loss. At TD of interval, mix in pre-mix pit, 100 barrels of system fluid, NewGel viscosity of 60 sec/100cc, add 0.25 ppb of Super Sweep. |
| 1300' – 5600' | Weight: 9.9 – 10.1 ppg<br>Viscosity: 28 – 29 sec/qt<br><br>pH: 9-10<br>Filtrate: NC             | Drill out from under the surface casing with Brine Water. Paper should be added at 2 bags after every 100' drilled to control seepage losses. Use Lime to maintain pH at 9-10. Mix one gallon of New-55 at flowline every 250 feet drilled to promote solids settling. Sweep hole with 5-ppb of Super Sweep every 500 feet.  |
| 5600' – TD    | Weight: 9.9 – 10.1 ppg<br>Viscosity: 30 – 40 sec/qt<br><br>pH: 9-10<br>Filtrate: 8-15 cm/30 min | From 5600' to Total Depth, it is recommended the system be restricted to the working pits. Adjust and maintain pH with Caustic Soda. Treat system with Newcide to prevent bacterial degradation of organic materials. Mix Starch (yellow) to control API filtrate at <15cc.  |

VI. Proposed Control Equipment:

Will install on the 8 5/8" surface casing a 9" x 3000 psi WP Double Ram BOP and will test before drilling out of surface casing. **As expected pressures will not exceed 2000 psi, we request a waiver of the remote control requirement on the accumulator of the 3M BOP and a variance to run a 2M BOP, if available.** See Exhibit "H" for BOP layout.

VII. Auxiliary Equipment:

9" x 3000 psi double BOP/blind & pipe ram (**2M BOP if available**)  
4 1/2" x 3000 psi Kelly valve  
9" x 3000 psi mud cross – H<sub>2</sub>S detector on production hole  
Gate-type safety valve 3" choke line from BOP to manifold  
2" adjustable chokes – 3" blowdown line

VIII A. Testing Program: None planned

B. Logging Program: The following logs may be run:

CNL, LDT, GR, CAL, DLL, MSFL, NGT, Sonic from TD-1300'  
CNL, GR from TD-Surface

C. Coring Program: None planned

D. Mudlogging Program: None planned

IX. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. The estimated maximum bottom hole pressure is 2400 psi.

EXHIBIT "B"  
Hawk B-1 #64

**HYDROGEN SULFIDE DRILLING OPERATIONS PLAN**

**No H<sub>2</sub>S is anticipated.**

EXHIBIT "C"

SURFACE USE AND OPERATIONS PLAN  
CULTURAL RESOURCES SURVEY  
APPROXIMATE REHABILITATION SCHEDULE

LOCALITY: **HAWK B-1 #64**  
OPERATOR: **APACHE CORPORATION**

LOCATION: **NE $\frac{1}{4}$ SE $\frac{1}{4}$  OF SECTION 9, T21S-R37E, N.M.P.M.**  
**LEA COUNTY, NEW MEXICO**

SUBMITTED TO:

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE  
620 E. GREENE ST  
CARLSBAD, NM 88220  
TELEPHONE (505) 234-5972

This plan is submitted to provide permitting agencies with information necessary to allow an appraisal of the environmental effects associated with the proposed drilling operations. Within the context of typical drilling operations, this plan provides for protection of surface resources and other environmental components. This plan has been developed in conformity with the United States Geological Survey NTL-6 guidelines, Bureau of Land Management Oil and Gas Order No. 1, and in connection and consultation with the private surface owner of record, if other than the United States of America, as well as the Roswell District Office for the Bureau of Land Management and the United States Department of the Interior personnel.

PART #1:

- 1) Surface Location:  
NE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 9, Township 21 South, Range 37 East, N.M.P.M.  
Lea County, New Mexico  
2605' FSL, 1210' FEL, Unit I  
See attached Exhibits "D" and "E"
- 2) Bottom Hole Location:  
NE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 9, Township 21 South, Range 37 East, N.M.P.M.  
Lea County, New Mexico  
2605' FSL, 1210' FEL, Unit I  
See attached Exhibits "D" and "E"
- 3) Leases Issued: NM-90161
- 4) Record Lessee:

|                    |     |
|--------------------|-----|
| Apache Corporation | 50% |
| BP America         | 25% |
| Chevron USA        | 25% |

- 5) Acres in Lease:  
Township 21 South, Range 37 East, NMPM  
 Section 4: Lots 3, 6  
 Section 6: E $\frac{1}{2}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$   
 Section 8: E $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$   
 Section 9: E $\frac{1}{2}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$   
Township 20 South, Range 37 East, NMPM  
 Section 13: SW $\frac{1}{4}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$   
Township 20 South, Range 38 East, NMPM  
 Section 30: Lot 1

Total Acres: 958.25

- 6) Acres Dedicated to Well:  
 There are 40.00 acres dedicated to this well, which takes in the NE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 9, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico.

**PART #2:**

- 1) Existing Roads:  
 Exhibits "E-1" & "E-2" comprise maps showing the proposed well site in relation to existing roads. From intersection of Highway 8 and Loop road 207 in Eunice, New Mexico, go 3.4 miles north on Loop 207. Turn left (west) on Deck Road and go 0.2 of a mile to location on left hand side as illustrated on Exhibit "E-2".
- 2) Planned Access:
- A. Length and Width: Existing lease/access roads will be used into the well site. Application for a buried pipeline will be made if it becomes necessary.
  - B. Construction: The existing roads will be lightly graded and topped with compacted caliche as needed.
  - C. Turnouts: None required.
  - D. Culverts: None required.
  - E. Cuts and Fills: As needed.
  - F. Gates and Cattleguards: None required.
- 3) Location of Existing Wells:  
 Exhibit "F" shows existing wells within a 1-mile radius of the proposed well.
- 4) Location of Existing and/or Proposed Facilities:
- A. There are production facilities within the area of the Hawk B-1 lease.
  - B. If the oil well proves to be commercial, any necessary production facilities will be installed on the drilling pad, and flow lines will be installed along the proposed and existing roads to the production facilities and storage tanks. See Exhibit "E-3" for flow-line route.
- 5) Location and Type of Water Supply:  
 Apache Corporation plans to drill the proposed well with fresh and brine water which will be transported by truck over proposed and existing access roads.
- 6) Source of Construction Materials:  
 Caliche for surfacing access roads and the wellsite pad will be obtained from the location itself or from BLM pits in the area.
- 7) Method of Handling Waste Material:
- A. Drill cuttings will be disposed of in the reserve pits.
  - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
  - C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
  - D. Water produced during operations will be collected in tanks until hauled to an approved disposal system.
  - E. Oil produced during operation will be stored in tanks until sold.
  - F. Apache Corporation will comply with current laws and regulations pertaining to the disposal of human waste.
  - G. All waste materials will be contained to prevent scattering by the wind and will be removed from the well site within 30 days after drilling and/or completion operations are finished.
- 8) Ancillary Facilities: None planned.

- 9) Well Site Layout:
- A. Exhibit "G" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area have been staked and flagged.
  - B. Mat Size: 150' x 210' plus reserve pits as shown on Exhibit "G".
  - C. Cut & Fill: Only minor leveling of the drilling site is anticipated.
  - D. The surface will be topped with compacted caliche and the reserve pits will be lined with 12 mil plastic.
- 10) Plans for Restoration of the Surface:
- A. After completion of drilling and/or completion operations, all equipment and other material, not needed for operations, will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they are filled.
  - C. If the proposed well is non-productive, Apache Corporation will comply with all rehabilitation and/or vegetation requirements of the Bureau of Land Management, and such rehabilitation will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.
- 11) Other Information:
- A. Topography: The wellsite and access road are located in the Querecho Plains and are relatively flat.
  - B. Soil: The proposed location, access road and production facilities consist of sandy soil. Slope in the proposed area ranges from zero (0) to five (5) degrees.
  - C. Flora and Fauna: Vegetation is one of a grassland environment and a scrub-grass, scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
  - D. Ponds and Streams: There are no ponds, lakes, streams or feeder creeks in the immediate area.
  - E. Residences and Other Structures: There are no occupied residences or other structures on or near the proposed location.
  - F. Land Use: The land is used for grazing cattle.
  - G. Surface Ownership: The surface is owned by the Millard Deck Estate , c/o Bank of America NA, attention Tim Wolters. P. O. Box 270, Midland, TX 79701, 432-685-2064. A surface damage agreement between Apache Corporation and the Millard Deck Estate was executed by both parties on August 11, 2006.
  - H. Archaeological, Historical, and Other Cultural Sites:  
Don Clifton, Archaeological Consultant, of Pep, New Mexico, will be conducting an archaeological survey of the proposed well which covers the drilling location, production facilities, and access road, including a corridor along said access road for power and flow lines. His report will be filed under separate cover.
  - I. Senior Representative (Manager, Engineering & Production):  
Ross Murphy  
Apache Corporation  
Suite 1500 – Two Warren Place  
6120 South Yale Avenue  
Tulsa, Oklahoma 74136  
(918) 491-4834
- Project (Operations Engineer):  
Kevin Mayes  
Apache Corporation  
Suite 1500 – Two Warren Place  
6120 South Yale Avenue  
Tulsa, Oklahoma 74136  
(918) 491-4972



Drilling Operations (Operations Engineer):

Terry Gilbert  
Apache Corporation  
Suite 1500 – Two Warren Place  
6120 South Yale Avenue  
Tulsa, Oklahoma 74136  
(918) 491-4801

CERTIFICATION

I hereby certify that Apache Corporation has inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Apache Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Bonita L. L. Jones, RPL, Consulting Landman  
Agent for Apache Corporation  
LIMPUSJONES, LLC  
705 West Mescalero Road  
Roswell, New Mexico 88201-5226  
(505) 624-9799 FAX (505) 624-9799  
E-Mail: [blljones@plateautel.net](mailto:blljones@plateautel.net)

Date: 8-25-06

K-06-72  
8/28/06  
Exhibit D-1

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I  
1226 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised JUNE 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

|                                   |  |   |
|-----------------------------------|--|---|
| API Number<br><b>30-025-38199</b> | Pool Code<br><b>22900</b>                  | Pool Name<br><b>Eunice; Blinebry-Tubb Drinkard, North</b> |
| Property Code<br><b>24427</b>     | Property Name<br><b>HAWK B1</b>            | Well Number<br><b>64</b>                                  |
| OGRID No.<br><b>0873</b>          | Operator Name<br><b>APACHE CORPORATION</b> | Elevation<br><b>3475'</b>                                 |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 1             | 9       | 21-S     | 37-E  |         | 2605          | SOUTH            | 1210          | EAST           | LEA    |

Bottom Hole Location if Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |         |               |                  |               |                |        |

|                                 |                 |                    |                              |
|---------------------------------|-----------------|--------------------|------------------------------|
| Dedicated Acres<br><b>40.00</b> | Joint or Infill | Consolidation Code | Order No.<br><b>NSL-5503</b> |
|---------------------------------|-----------------|--------------------|------------------------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

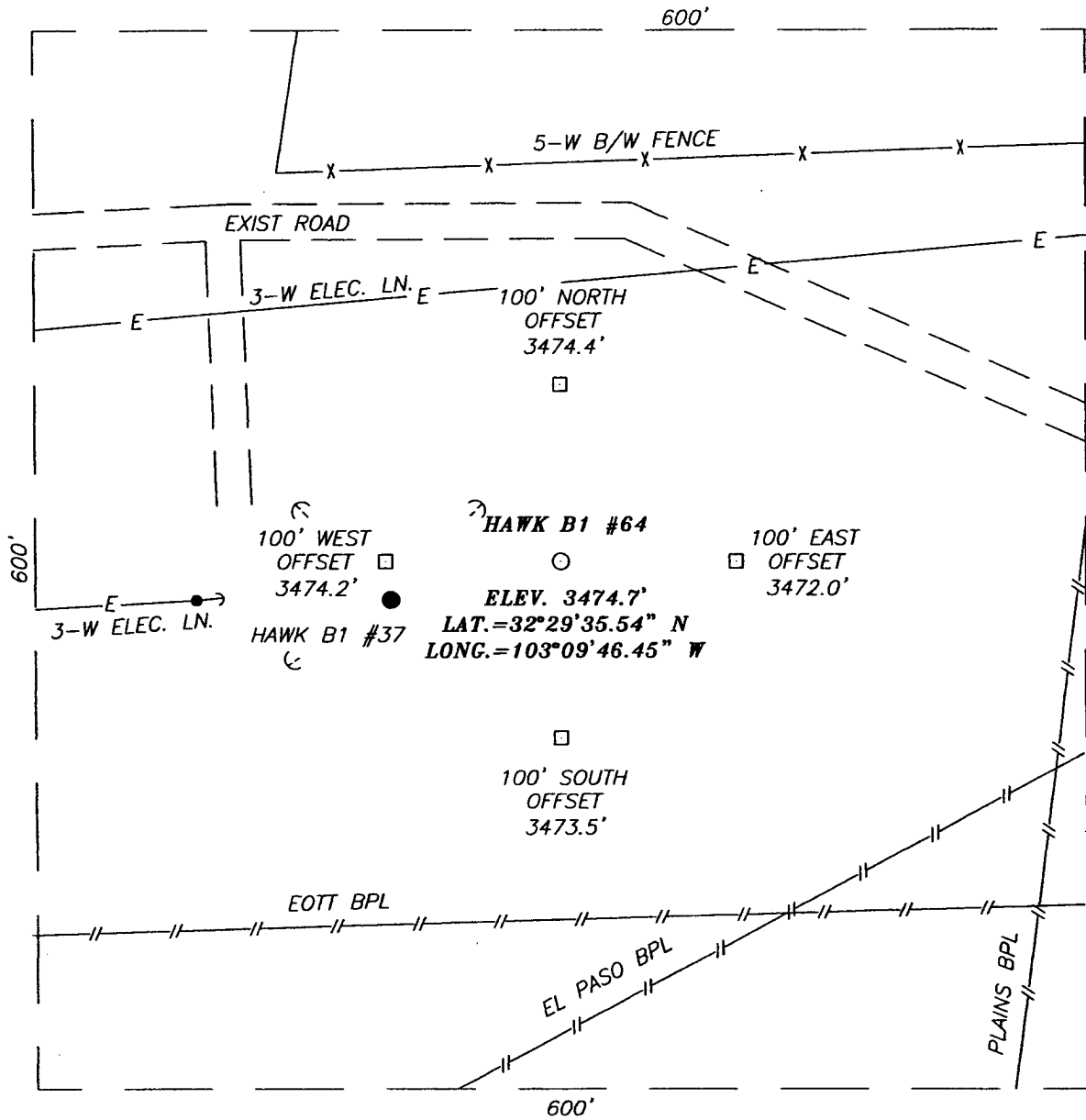
|  |   |  |
|--|---|--|
| <p>GEODETIC COORDINATES<br/>NAD 27 NME</p> <p>Y=545121.2 N<br/>X=860882.1 E</p> <p>LAT.=32°29'35.54" N<br/>LONG.=103°09'46.45" W</p> | <p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Lana Williams</i><br/>Signature</p> <p>Lana Williams<br/>Printed Name</p> <p>Eng. Tech<br/>Title</p> <p>7/26/06<br/>Date</p>  |  |
|  | <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JANUARY 6, 2006</p> <p>Date Surveyed</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><i>Gary E. Eidson</i> 1/17/06</p> <p>06.11.0026</p> <p>Certificate No. GARY EIDSON 12641</p> |  |
|  |   |  |
|  | <p>Professional Surveyor</p>  |  |

**SECTION 9, TOWNSHIP 21 SOUTH, RANGE 37 EAS**

LEA COUNTY,

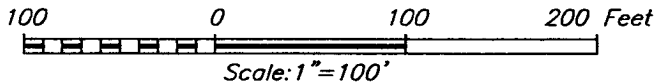
Exhibit D-2

NEW MEXICO



**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF ST. HWY. #207 CO. RD. E-35 (DECK RD.) GO WEST/NW ON CO. RD. E-35 APPROX. 0.2 MILES. TURN LEFT (SOUTH) AND GO APPROX. 200' TO THE EXISTING HAWK B1 #37 WELL. THIS LOCATION IS APPROX. 100' EAST.



PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 393-3117

**APACHE CORPORATION**

HAWK B1 #64 WELL  
LOCATED 2605 FEET FROM THE SOUTH LINE  
AND 1210 FEET FROM THE EAST LINE OF SECTION 9,  
TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.

|                         |                                    |
|-------------------------|------------------------------------|
| Survey Date: 1/06/06    | Sheet 1 of 1 Sheets                |
| W.O. Number: 06.11.0026 | Dr By: J.R. Rev 1:N/A              |
| Date: 1/13/06           | Disk: CD#6 06110026 Scale: 1"=100' |

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised JUNE 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

|               |                                     |           |                    |
|---------------|-------------------------------------|-----------|--------------------|
| API Number    |                                     | Pool Code | Pool Name          |
| Property Code | Property Name<br>HAWK B1            |           | Well Number<br>64  |
| OGRID No.     | Operator Name<br>APACHE CORPORATION |           | Elevation<br>3475' |

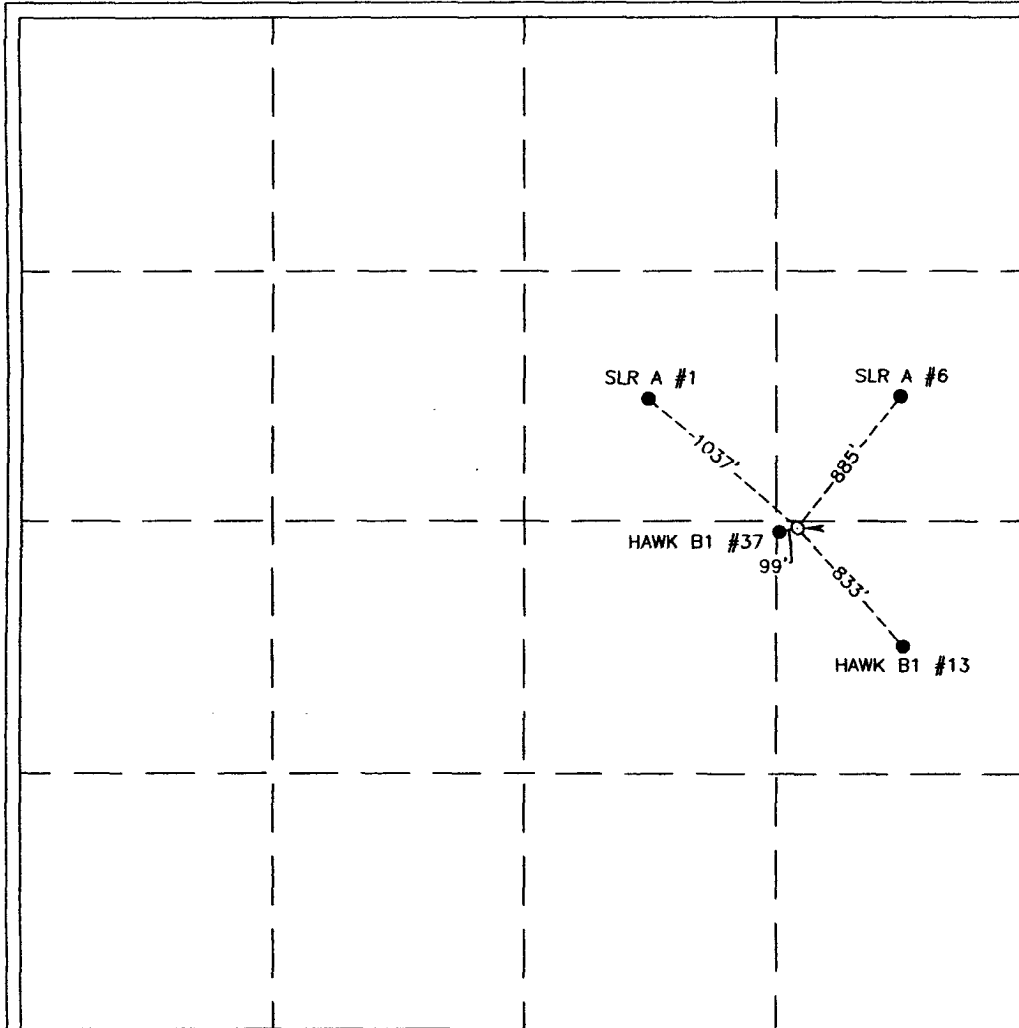
Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 1             | 9       | 21-S     | 37-E  |         | 2605          | SOUTH            | 1210          | EAST           | LEA    |

Bottom Hole Location If Different From Surface

| UL or lot No.   | Section | Township        | Range              | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-----------------|---------|-----------------|--------------------|---------|---------------|------------------|---------------|----------------|--------|
|                 |         |                 |                    |         |               |                  |               |                |        |
| Dedicated Acres |         | Joint or Infill | Consolidation Code |         | Order No.     |                  |               |                |        |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**OPERATOR CERTIFICATION**

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

*Lana Williams*  
Signature

Lana Williams  
Printed Name

Eng Tech  
Title

7/26/06  
Date

---

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

JANUARY 6, 2006  
Date Surveyed

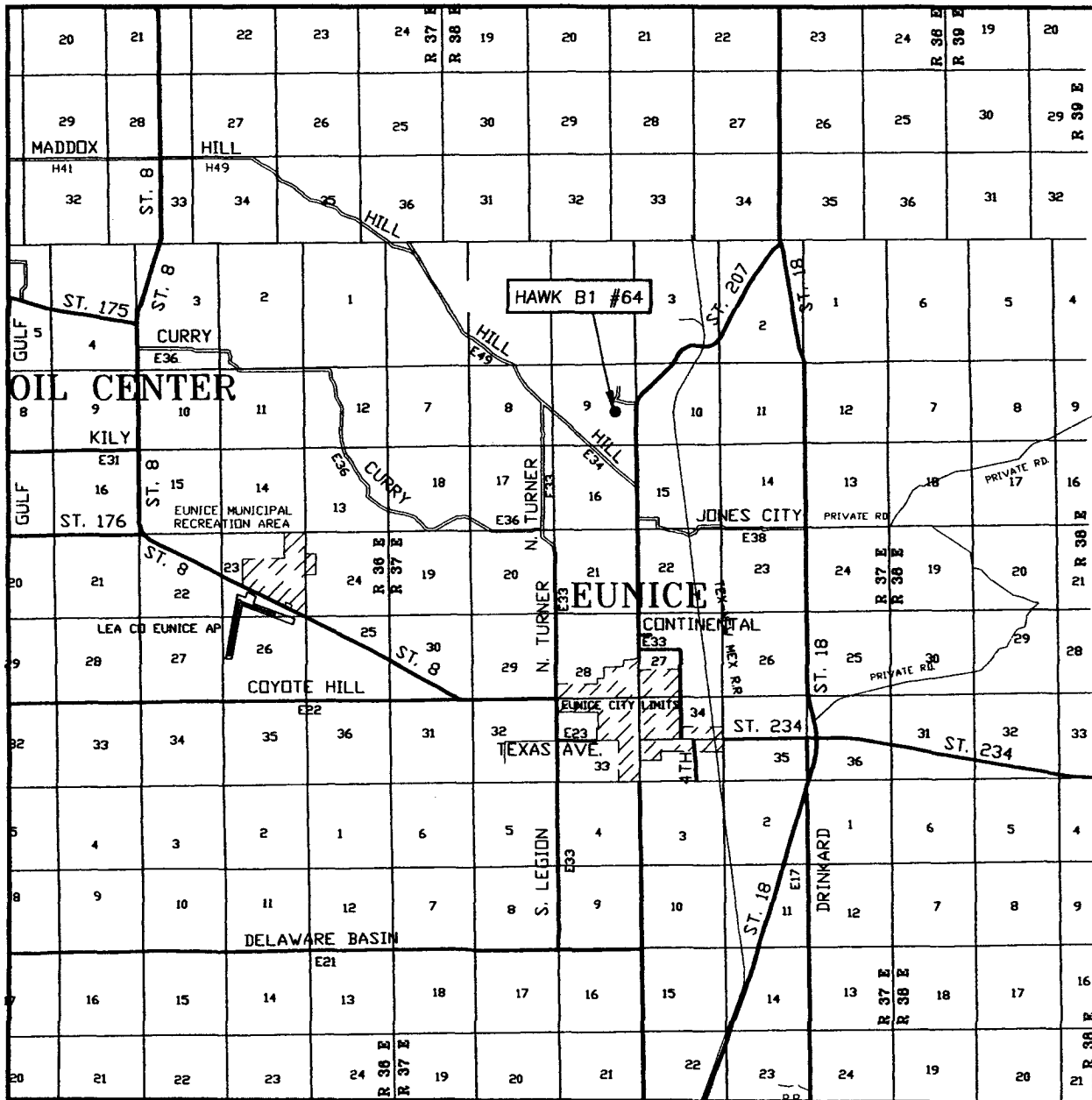
JR  
Signature & Seal of Professional Surveyor

---

06.11.0026


Certificate No. GARY EIDSON 12841

# VICINITY MAP



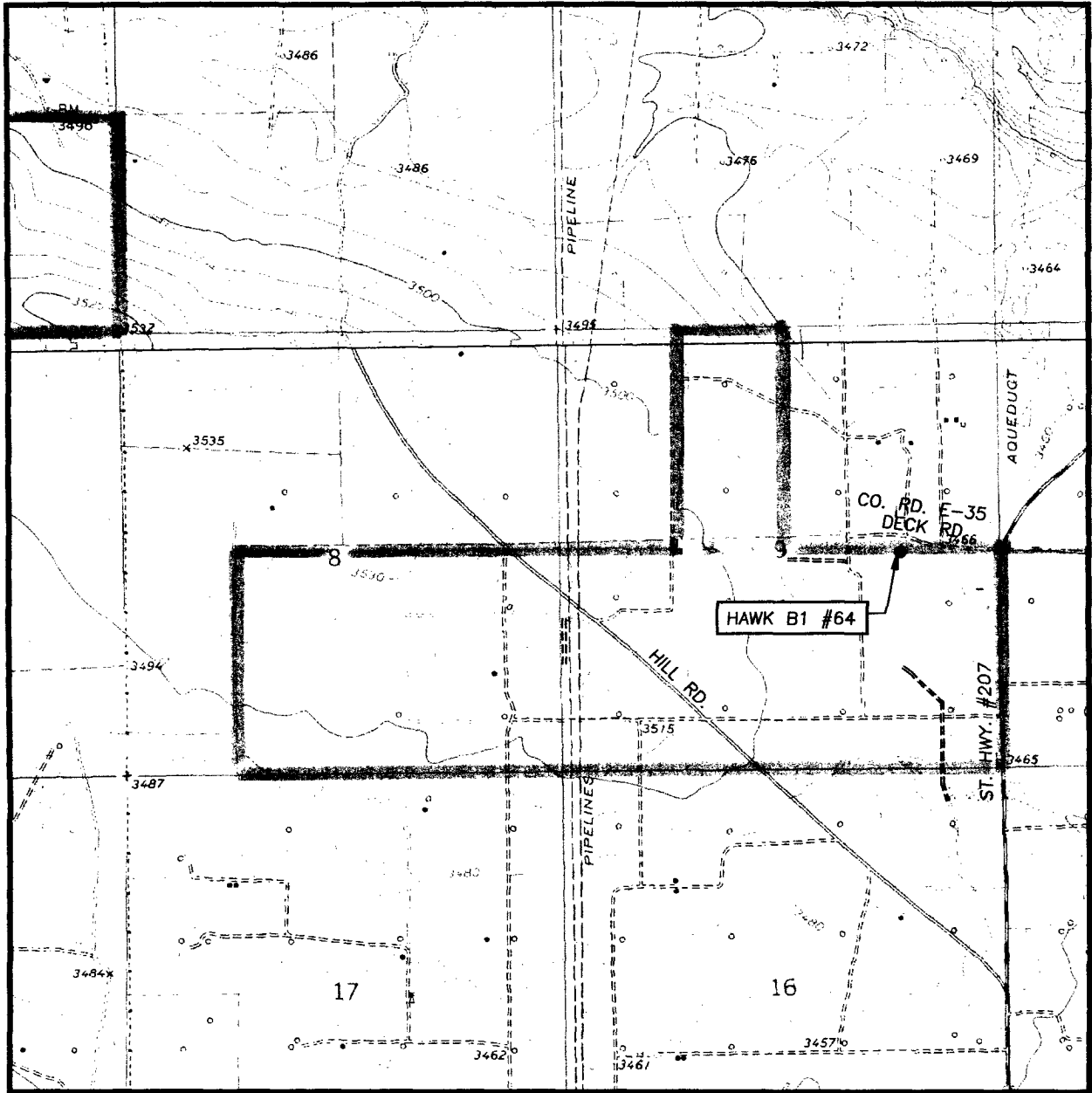
SCALE: 1" = 2 MILES

SEC. 9 TWP. 21-S RGE. 37-E  
 SURVEY N.M.P.M.  
 COUNTY LEA  
 DESCRIPTION 2605' FSL & 1210' FEL  
 ELEVATION 3475'  
 OPERATOR APACHE CORPORATION  
 LEASE HAWK B1



**PROVIDING SURVEYING SERVICES**  
 SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
 412 N. DAL PASO  
 HOBBS, N.M. 88240  
 (505) 383-3117

# LOCATION VERIFICATION



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
HOBBS SW, N.M. - 10'  
EUNICE, N.M. - 10'

SEC. 9 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA


DESCRIPTION 2605' FSL & 1210' FEL

ELEVATION 3475'

OPERATOR APACHE CORPORATION

LEASE HAWK B1

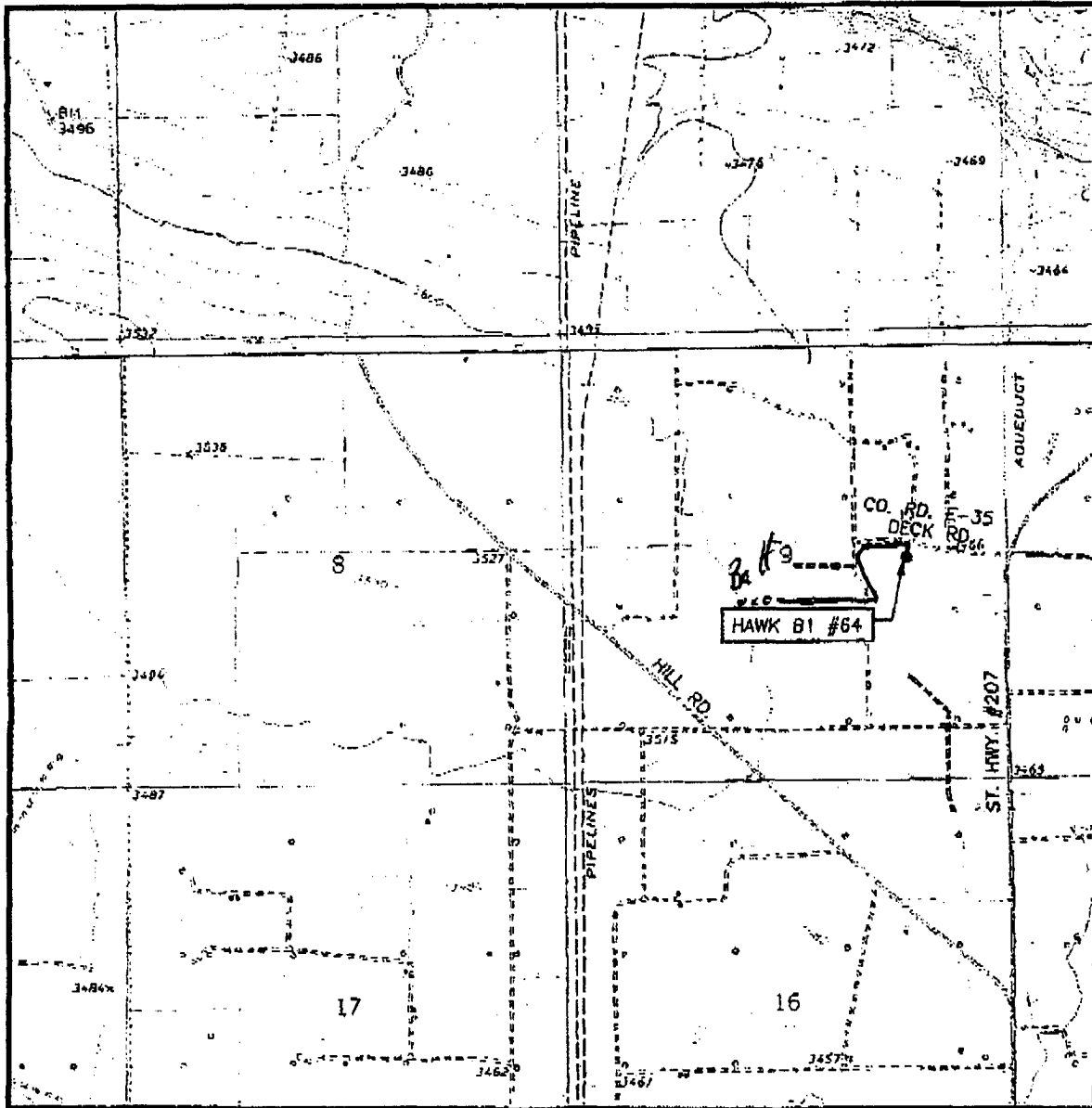
U.S.G.S. TOPOGRAPHIC MAP  
HOBBS SW, N.M.



PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 383-3117

 LEASE BOUNDARY

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
HOBBS SW, N.M. - 10'  
EUNICE, N.M. - 10'

SEC. 9 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2605' FSL & 1210' FEL


ELEVATION 3475'

OPERATOR APACHE CORPORATION

LEASE HAWK B1

U.S.G.S. TOPOGRAPHIC MAP  
HOBBS SW, N.M.

PROVIDING SURVEYING SERVICES  
SINCE 1948



**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 333-3117

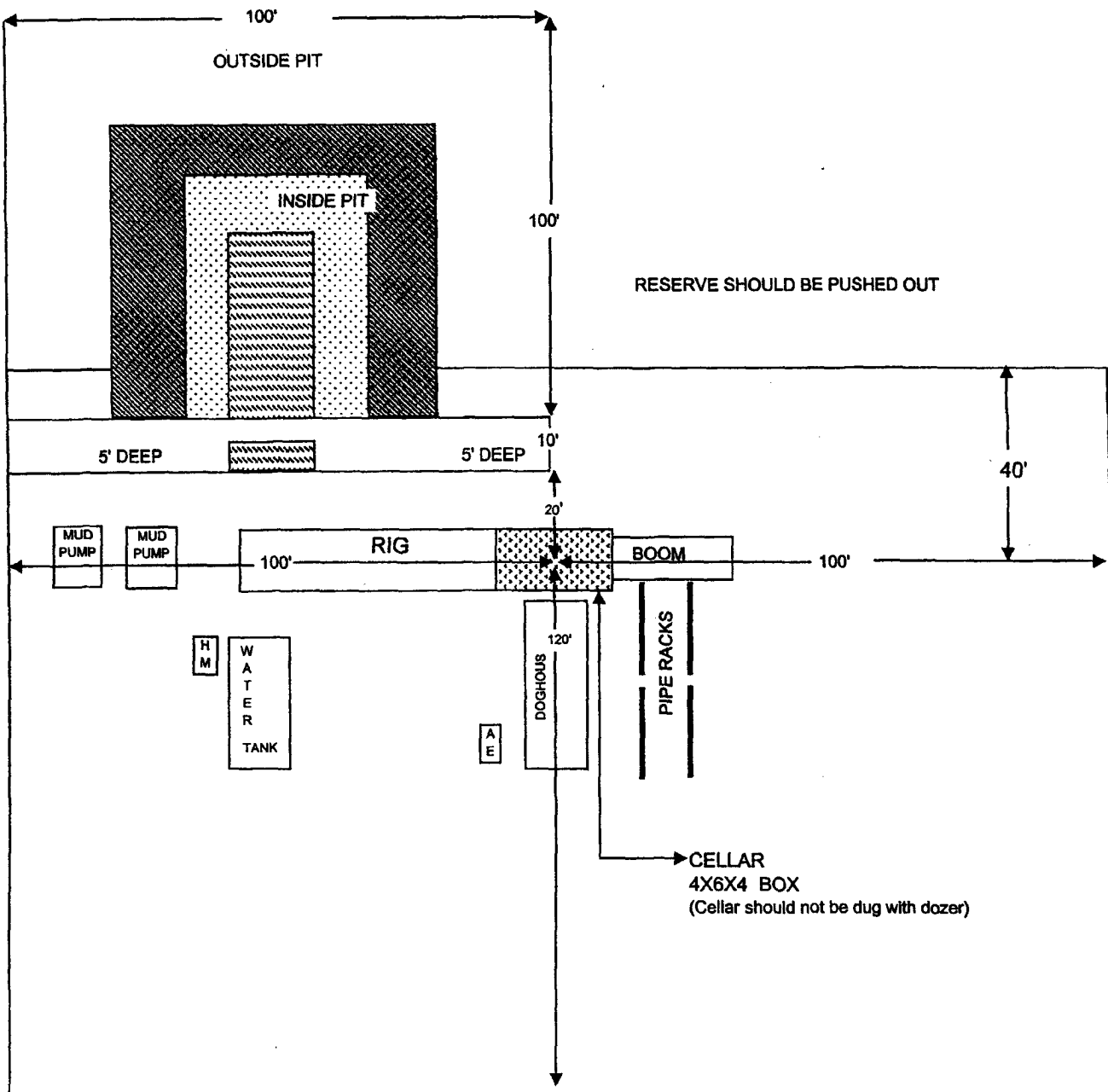
 Flow Lines





Exhibit G  
 CapStar Drilling, Inc.  
 LOCATION SPECIFICATIONS AND RIG LAYOUT  
 FOR EARTH PITS

Rig #8



Cellar can be 4X4X4 if using a screw-on wellhead  
 Working Pits dug 5' below ground level

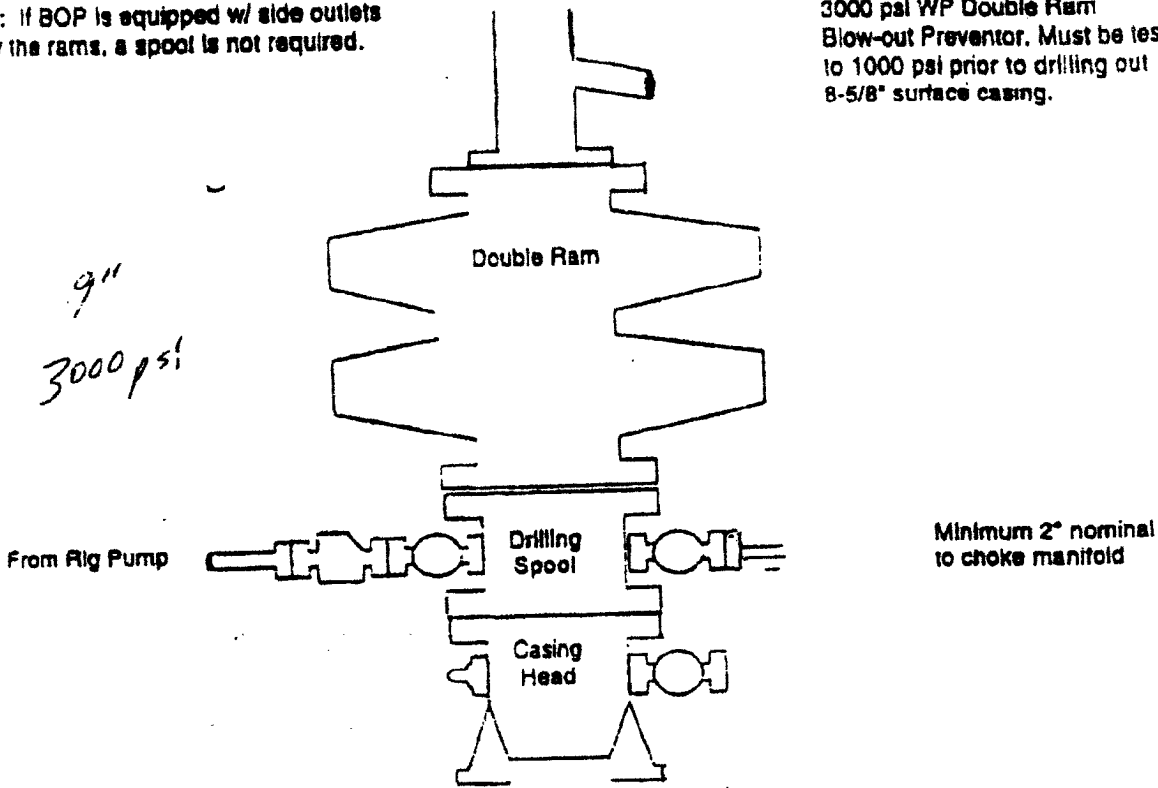
# Exhibit H

## BOP Schematic

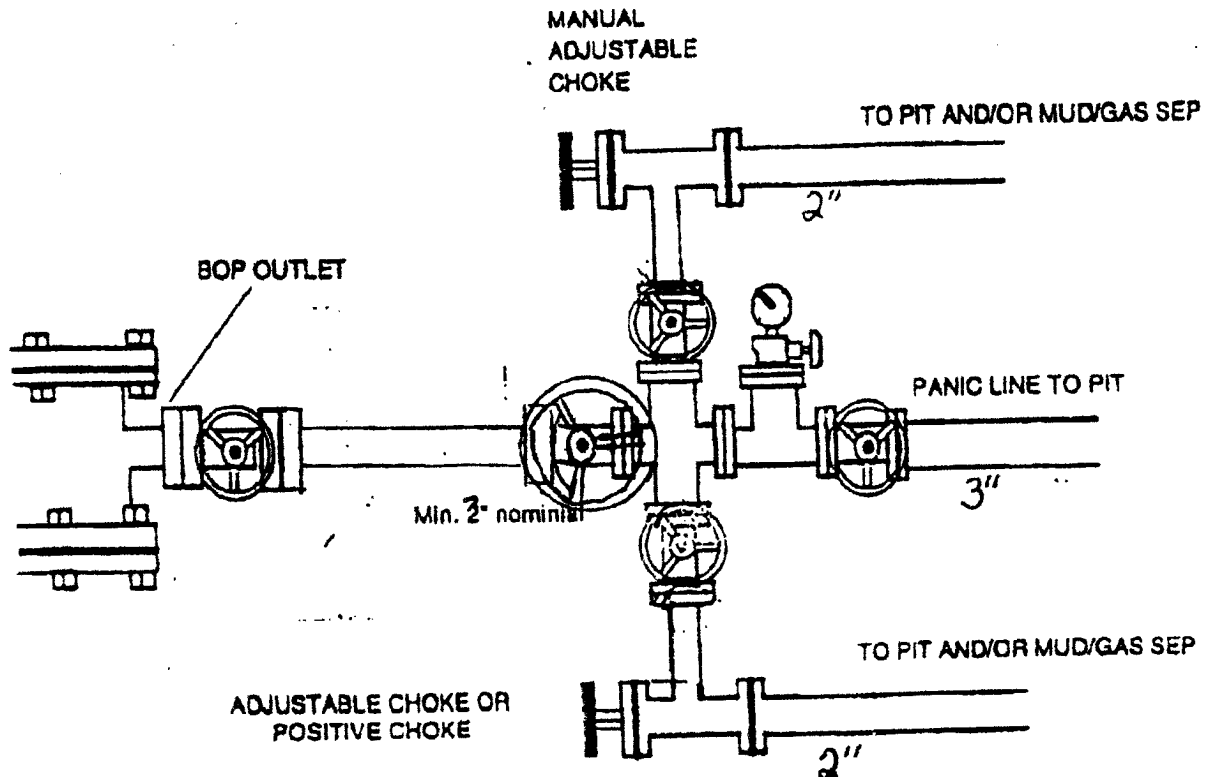
\*Note: If BOP is equipped w/ side outlets below the rams, a spool is not required.

3000 psi WP Double Ram Blow-out Preventor. Must be tested to 1000 psi prior to drilling out 8-5/8" surface casing.

9"  
3000 psi



## Choke Manifold Schematic



## CONDITIONS OF APPROVAL - DRILLING

Well Name & No.     **Hawk B-1 #64**  
Operator's Name:    **Apache Corporation**  
Location:            **2605 FSL, 1210 FEL, Section 9, T-21-S, R-37-E**  
Lease:                **NMNM-90161**

### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5972 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 8-5/8 inch 5-1/2 inch.

C. BOP tests

2. A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan should be activated prior to drilling into the Glorieta Formation. A copy of the plan shall be posted at the drilling site. **Hydrogen Sulfide has been reported in wells in section 3 and 10 in amounts from 200-800 ppm in gas streams and 400-130,000 in STVs.**

3 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing ( size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

### II. CASING:

1. The 8-5/8 inch surface casing shall be set below usable water (**25' into the Rustler**) and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

#### **Possible lost circulation in the Glorieta.**

2. The minimum required fill of cement behind the 5-1/2 inch production casing is **cement shall circulate to surface.**

### **III. PRESSURE CONTROL:**

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 8-5/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) is 2000 psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

**Engineer (after hours): 505-706-2779**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes  No

Type of action: Registration of a pit or below-grade tank  Closure of a pit or below-grade tank

Operator: Apache Corporation (0873) Telephone: 918-491-4801 e-mail address: terry.gilbert@usa.apachecorp.com  
Address: 6120 S. Yale Ave., #1500, Tulsa, OK 74136  
Facility or well name: Hawk B-1 #64 API #: 30-025-38199 U/L or Qtr/Qtr I Sec 9 T 21S R 37E  
County: Lea Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: 1927  1983   
Surface Owner: Federal  State  Private  Indian

| Pit   | Below-grade tank   |                    |             |  |   |             |           |                   |            |  |
|---|--|--------------------|-------------|--|---|-------------|-----------|-------------------|------------|--|
| Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/><br>Workover <input type="checkbox"/> Emergency <input type="checkbox"/><br>Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/><br>Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>20</u> mil Clay <input type="checkbox"/><br>Pit Volume <u>7105</u> bbl | Volume: _____ bbl Type of fluid: _____<br>Construction material: _____<br>Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.  |                    |             |  |   |             |           |                   |            |  |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)  | <table border="1"> <tr> <td>Less than 50 feet</td> <td>(20 points)</td> <td></td> </tr> <tr> <td>50 feet or more, but less than 100 feet</td> <td>(10 points)</td> <td><u>10</u></td> </tr> <tr> <td>100 feet or more</td> <td>(0 points)</td> <td></td> </tr> </table>    | Less than 50 feet  | (20 points) |  | 50 feet or more, but less than 100 feet   | (10 points) | <u>10</u> | 100 feet or more  | (0 points) |  |
| Less than 50 feet   | (20 points)  |                    |             |  |   |             |           |                   |            |  |
| 50 feet or more, but less than 100 feet   | (10 points)  | <u>10</u>          |             |  |   |             |           |                   |            |  |
| 100 feet or more  | (0 points)   |                    |             |  |   |             |           |                   |            |  |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)   | <table border="1"> <tr> <td>Yes</td> <td>(20 points)</td> <td></td> </tr> <tr> <td>No</td> <td>(0 points)</td> <td><u>0</u></td> </tr> </table>  | Yes                | (20 points) |  | No  | (0 points)  | <u>0</u>  |                   |            |  |
| Yes   | (20 points)  |                    |             |  |   |             |           |                   |            |  |
| No  | (0 points)   | <u>0</u>           |             |  |   |             |           |                   |            |  |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)   | <table border="1"> <tr> <td>Less than 200 feet</td> <td>(20 points)</td> <td></td> </tr> <tr> <td>200 feet or more, but less than 1000 feet</td> <td>(10 points)</td> <td><u>0</u></td> </tr> <tr> <td>1000 feet or more</td> <td>(0 points)</td> <td></td> </tr> </table> | Less than 200 feet | (20 points) |  | 200 feet or more, but less than 1000 feet | (10 points) | <u>0</u>  | 1000 feet or more | (0 points) |  |
| Less than 200 feet  | (20 points)  |                    |             |  |   |             |           |                   |            |  |
| 200 feet or more, but less than 1000 feet   | (10 points)  | <u>0</u>           |             |  |   |             |           |                   |            |  |
| 1000 feet or more   | (0 points)   |                    |             |  |   |             |           |                   |            |  |
| Ranking Score (Total Points)  |  | <u>10</u>          |             |  |   |             |           |                   |            |  |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite  offsite  If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No  Yes  If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

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I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: 8-25-06  
Printed Name/Title: Terry Gilbert Signature: [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:  
Printed Name/Title: CHRIS WILLIAMS / DIST. SWA Signature: [Signature] Date: 12/4/06